

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:

**June
2013**

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project (SWP) has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Contractors, public agencies, consultants, and others with the daily and monthly status of SWP's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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For details, please contact:

State of California
Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236-0001

Or call the DWR Publications Desk at (916) 653-1097

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Department of Water Resources
LAURA KING MOON, Chief Deputy Director

VACANT	GARY BARDINI	CARL TORGERSEN	JOHN PACHECO	KATHIE KISHABA
Deputy Director	Deputy Director	Deputy Director	Deputy Director	Deputy Director

DIVISION OF OPERATIONS AND MAINTENANCE

David Duval..... Chief, Division of Operations and Maintenance

This report was prepared under the direction of

David Roose..... Chief, Operations Control Office
John Leahigh..... Principal Engineer, Water Operations Office
Tracy Hinojosa Supervising Engineer, Regulatory Compliance and Reporting Branch
Guy Masier..... Senior Engineer, Data Management Section

By the Reporting Section

Michael Nolasco Section Chief, Reporting Section
Mary Valdez Water Resources Engineering Associate (Specialist)
Clay Thomas Water Resources Engineering Associate (Specialist)
Edna Smith Water Resources Engineering Associate (Specialist)

The organization shown above represents staff and positions relevant to this report as of month of publication, January 2015. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities, actions, and conditions affected State Water Project (SWP) operations during June 2013:

Statewide precipitation was about 75 percent of average for water year 2012 – 2013 through June 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: "http://cdec.water.ca.gov/snow_rain.html".

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources (DWR) in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the State's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. June snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for water year 2012 – 2013 was 10.8 maf, 64 percent of average. Statewide runoff for water year 2012 – 2013 was 60 percent of average.

Statewide reservoir storage was 80 percent of average to date. Total storage in major SWP reservoirs at the end of June was about 3.32 maf compared to 4.32 maf at this time in 2012. On June 30, end-of-month storage at Lake Oroville was about 2.56 maf, as compared to 3.22 maf at this time in 2012. The State share of San Luis Reservoir's end-of-month storage was about 199 taf, as compared with 632 taf at this time in 2012. The combined storage in SWP's southern reservoirs was about 563 taf, compared with about 466 taf at this time in 2012.

The cumulative SWP water deliveries to date through June were about 1.43 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2012 were 1.88 maf.

By mutual agreement between the U.S. Bureau of Reclamation (USBR) and DWR in accordance with Article 6(h) of the Coordinated Operation Agreement (COA), conditions remained "Balanced" with accounting in June. "Balanced" conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports. COA conditions did not have any restrictions on operations due to fish concerns at any time during the month. The end-of-month USBR COA balance was 55,398 cfs in favor of USBR.

There were three measurable earthquakes within the vicinity of the SWP during June; however, no facilities were found to meet inspection criteria.

During the month of June, there were 16 days with fish salvage reports including Delta smelt, steelhead, and salmon.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
May 31	5,002.13	22,685									
1	5,002.12	22,676	-9	5	0	0	5	7	17	12	
2	5,002.12	22,676	0	5	0	0	5	7	17	17	
3	5,002.09	22,648	-28	12	0	0	3	7	22	8	
4	5,002.05	22,611	-37	20	0	0	1	7	28	9	
5	5,002.02	22,583	-28	20	0	0	0	7	27	13	
6	5,001.98	22,546	-37	20	0	0	0	7	27	8	
7	5,001.96	22,527	-19	20	0	0	0	7	27	17	
8	5,001.94	22,509	-18	20	0	0	0	7	27	18	
9	5,001.90	22,471	-38	20	0	0	0	7	27	8	
10	5,001.86	22,434	-37	20	0	0	0	7	27	8	
11	5,001.80	22,379	-55	20	0	0	0	7	27	-1	
12	5,001.76	22,342	-37	20	0	0	0	7	27	8	
13	5,001.72	22,305	-37	20	0	0	0	7	27	8	
14	5,001.68	22,268	-37	20	0	0	0	7	27	8	
15	5,001.64	22,231	-37	20	0	0	0	7	27	8	
16	5,001.60	22,195	-36	20	0	0	0	7	27	9	
17	5,001.55	22,149	-46	20	0	0	0	7	27	4	
18	5,001.52	22,121	-28	20	0	0	0	7	27	13	
19	5,001.46	22,066	-55	20	0	0	0	7	27	-1	
20	5,001.42	22,030	-36	20	0	0	0	7	27	9	
21	5,001.38	21,993	-37	20	0	0	0	7	27	8	
22	5,001.34	21,956	-37	20	0	0	0	7	27	8	
23	5,001.32	21,938	-18	20	0	0	0	7	27	18	
24	5,001.28	21,902	-36	20	0	0	0	7	27	9	
25	5,001.28	21,902	0	20	0	0	0	7	27	27	
26	5,001.26	21,883	-19	20	0	0	0	7	27	17	
27	5,001.22	21,847	-36	20	0	0	0	7	27	9	
28	5,001.18	21,811	-36	20	0	0	0	7	27	9	
29	5,001.14	21,774	-37	20	0	0	0	7	27	8	
30	5,001.10	21,738	-36	20	0	0	0	5	25	7	
Total cfs-days				562	0	0	14	208	784	307	
Total ac-ft				-947	1,115	0	28	413	1,556	609	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract				
May 31	5,574.35	36,419								
1	5,574.32	36,382	-37	1	23	0	0	9	33	
2	5,574.29	36,346	-36	1	22	0	0	9	32	
3	5,574.23	36,273	-73	1	29	0	0	9	39	
4	5,574.11	36,128	-145	0	44	0	0	9	53	
5	5,574.01	36,007	-121	0	51	0	0	9	60	
6	5,573.92	35,898	-109	0	55	0	0	9	64	
7	5,573.81	35,765	-133	0	57	0	0	9	66	
8	5,573.68	35,609	-156	0	57	0	0	9	66	
9	5,573.57	35,477	-132	0	57	0	0	9	66	
10	5,573.53	35,429	-48	1	51	0	0	9	61	
11	5,573.42	35,298	-131	1	51	0	0	9	61	
12	5,573.29	35,143	-155	1	64	0	0	9	74	
13	5,573.12	34,941	-202	1	76	0	0	9	86	
14	5,573.02	34,823	-118	1	54	0	0	9	64	
15	5,572.95	34,740	-83	1	32	0	0	9	42	
16	5,572.88	34,657	-83	1	32	0	0	9	42	
17	5,572.81	34,575	-82	1	22	0	0	9	32	
18	5,572.72	34,469	-106	1	27	0	0	9	37	
19	5,572.69	34,434	-35	1	34	0	0	9	44	
20	5,572.58	34,305	-129	1	29	0	0	9	39	
21	5,572.53	34,246	-59	1	21	0	0	9	31	
22	5,572.48	34,188	-58	1	18	0	0	9	28	
23	5,572.43	34,129	-59	1	18	0	0	9	28	
24	5,572.37	34,059	-70	1	30	0	0	9	40	
25	5,572.27	33,943	-116	1	44	0	0	9	54	
26	5,572.20	33,861	-82	1	44	0	0	9	54	
27	5,572.11	33,757	-104	1	44	0	0	10	55	
28	5,572.01	33,641	-116	1	38	0	0	10	49	
29	5,571.91	33,526	-115	1	38	0	0	10	49	
30	5,571.85	33,456	-70	1	38	0	0	10	49	
Total cfs-days				24	1,200	0	0	274	1,498	
Total ac-ft				-2,963	48	2,380	0	543	2,971	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
May 31	5,770.53	67,400									
1	5,770.51	67,329	-71	8	2	1	0	31	42	6	
2	5,770.49	67,257	-72	8	2	1	0	31	42	5	
3	5,770.47	67,186	-71	8	2	1	0	31	42	6	
4	5,770.45	67,115	-71	8	2	1	0	31	42	6	
5	5,770.41	66,972	-143	8	2	1	0	31	42	-30	
6	5,770.39	66,901	-71	9	1	1	0	31	42	6	
7	5,770.37	66,830	-71	9	1	1	0	31	42	6	
8	5,770.34	66,724	-106	9	1	1	0	31	42	-12	
9	5,770.32	66,653	-71	9	1	1	0	31	42	6	
10	5,770.29	66,546	-107	9	1	1	0	31	42	-12	
11	5,770.27	66,475	-71	9	1	1	0	31	42	6	
12	5,770.25	66,405	-70	9	1	1	0	31	42	6	
13	5,770.23	66,334	-71	9	1	1	0	31	42	6	
14	5,770.20	66,228	-106	9	1	1	0	31	42	-12	
15	5,770.15	66,051	-177	9	1	1	0	31	42	-48	
16	5,770.13	65,981	-70	9	1	1	0	31	42	6	
17	5,770.10	65,875	-106	9	1	1	0	31	42	-12	
18	5,770.06	65,734	-141	9	1	1	0	31	42	-29	
19	5,770.05	65,699	-35	9	1	1	0	32	43	25	
20	5,770.03	65,628	-71	9	1	1	0	32	43	7	
21	5,770.00	65,523	-105	9	1	1	0	32	43	-10	
22	5,769.97	65,418	-105	9	1	1	0	32	43	-10	
23	5,769.95	65,347	-71	9	1	1	0	32	43	7	
24	5,769.93	65,277	-70	9	1	1	0	32	43	8	
25	5,769.93	65,277	0	8	2	1	0	32	43	43	
26	5,769.92	65,242	-35	8	2	1	0	32	43	25	
27	5,769.90	65,172	-70	8	2	1	0	32	43	8	
28	5,769.86	65,032	-140	8	2	1	0	32	43	-28	
29	5,769.85	64,997	-35	8	2	1	0	32	43	25	
30	5,769.81	64,857	-140	8	2	1	0	32	43	-28	
Total cfs-days				253	48	23	0	977	1,300	18	
Total ac-ft				-2,543	501	94	46	0	1,938	2,579	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli)

2/ Includes Plumas County and Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation
(in acre-feet except as noted)
Capacity: 3,537,580 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
May 31	850.30	2,812,374										
	1	849.65	2,803,656	-8,718	11,923	24	0	1	294	0	12,242	0
	2	848.98	2,794,690	-8,966	11,933	24	0	1	308	0	12,266	0
	3	848.27	2,785,210	-9,480	11,936	24	0	1	391	0	12,352	0
	4	847.84	2,779,480	-5,730	8,296	24	0	1	314	0	8,635	0
	5	847.54	2,775,487	-3,993	6,798	24	0	1	253	0	7,076	0
	6	847.29	2,772,163	-3,324	6,802	24	0	1	236	901	7,964	0
	7	846.83	2,766,054	-6,109	6,827	25	0	1	304	2,803	9,960	0
	8	846.47	2,761,279	-4,775	6,903	26	0	1	381	1,312	8,623	0
	9	846.23	2,758,099	-3,180	6,894	26	0	1	304	0	7,225	0
	10	845.84	2,752,937	-5,162	6,868	24	0	1	418	1,061	8,372	0
	11	845.42	2,747,386	-5,551	6,809	24	0	1	91	1,736	8,661	0
	12	844.97	2,741,446	-5,940	6,936	24	0	1	242	1,736	8,939	0
	13	844.61	2,736,701	-4,745	6,833	24	0	1	273	1,736	8,867	0
	14	844.16	2,730,778	-5,923	6,924	25	0	1	317	1,686	8,953	0
	15	843.76	2,725,521	-5,257	6,920	26	0	1	264	1,686	8,897	0
	16	843.29	2,719,353	-6,168	6,931	26	0	1	227	2,326	9,511	0
	17	842.78	2,712,670	-6,683	6,968	26	0	1	481	2,678	10,154	0
	18	842.28	2,706,130	-6,540	6,978	26	0	1	301	2,678	9,984	0
	19	841.90	2,701,167	-4,963	6,978	26	0	1	247	2,678	9,930	0
	20	841.39	2,694,516	-6,651	8,151	26	0	1	285	2,455	10,918	0
	21	840.59	2,684,106	-10,410	8,718	26	0	1	314	4,493	13,552	0
	22	839.46	2,669,444	-14,662	15,759	26	0	0	299	3,023	19,107	0
	23	838.16	2,652,641	-16,803	19,048	26	0	0	260	0	19,334	0
	24	836.88	2,636,169	-16,472	19,037	26	0	0	222	0	19,285	0
	25	836.01	2,625,013	-11,156	16,624	26	0	0	59	0	16,709	0
	26	835.03	2,612,487	-12,526	16,129	26	0	0	22	0	16,177	0
	27	834.06	2,600,130	-12,357	16,130	26	0	0	212	0	16,368	0
	28	833.01	2,586,799	-13,331	17,230	26	0	0	292	0	17,548	0
	29	831.83	2,571,875	-14,924	17,718	26	0	0	364	0	18,108	0
	30	830.73	2,558,018	-13,857	17,715	26	0	0	363	0	18,104	0
Total				-254,356	319,716	758	0	21	8,338	34,988	363,821	0
1/ Includes bypass flows												
2/ South Feather Water and Power Agency												
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.												
4/ Does not include pumpback.												

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

June 2013

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Water and Sewer	Releases To River 4/	Hyatt Powerplant Pumpback	
May 31	23,829										
	1	23,931	102	11,923	78	0	11,087	0	8	1,954	0
	2	24,246	315	11,933	138	0	10,931	0	9	1,956	0
	3	24,097	-149	11,936	33	0	11,250	0	9	1,958	0
	4	24,151	54	8,296	134	0	7,315	0	9	1,964	0
	5	24,382	231	6,798	82	0	5,477	0	9	1,968	0
	6	24,220	-162	7,703	85	0	6,251	0	9	2,301	0
	7	23,955	-265	9,630	79	0	7,801	0	9	2,579	0
	8	24,342	387	8,215	188	0	6,089	0	9	2,579	0
	9	24,539	197	6,894	148	0	5,084	0	9	2,579	0
	10	24,061	-478	7,929	47	0	6,495	0	9	2,598	0
	11	23,562	-499	8,545	50	0	7,024	0	9	2,577	0
	12	23,961	399	8,672	45	0	6,266	0	9	2,596	0
	13	24,633	672	8,569	45	0	5,824	0	9	2,598	0
	14	24,433	-200	8,610	47	0	6,725	0	9	2,600	0
	15	23,933	-500	8,606	47	0	7,011	0	9	2,598	0
	16	23,995	62	9,257	47	0	7,078	0	9	2,598	0
	17	24,045	50	9,646	46	0	7,460	0	9	2,638	0
	18	24,061	16	9,656	47	0	7,460	0	9	2,678	0
	19	24,011	-50	9,656	47	0	7,460	0	9	2,737	0
	20	24,164	153	10,606	47	0	7,872	0	9	2,579	0
	21	24,099	-65	13,211	47	0	10,170	0	9	2,856	0
	22	24,355	256	18,782	47	0	15,029	0	9	3,215	0
	23	24,252	-103	19,048	46	0	15,890	0	9	3,116	0
	24	24,180	-72	19,037	64	0	15,890	0	9	3,096	0
	25	23,962	-218	16,624	81	0	15,229	0	9	3,096	0
	26	23,659	-303	16,129	61	0	14,898	0	9	3,074	0
	27	23,465	-194	16,130	92	0	14,898	0	9	3,055	0
	28	23,749	284	17,230	105	0	15,394	0	9	3,055	0
	29	23,972	223	17,718	269	0	15,890	0	9	3,057	0
	30	24,069	97	17,715	202	0	15,372	0	9	3,076	0
Total		240	354,704	2,494	0	296,620	0	269	79,330	0	19,261

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
May 31	133.24	43,759											
1	134.01	46,760	3,001	11,087	2,916	14	654	1,646	2,479	0	-377	4,433	
2	134.80	49,923	3,163	10,931	2,916	13	690	1,660	2,201	0	-288	4,157	
3	135.67	53,515	3,592	11,250	2,975	12	704	1,710	2,080	0	-177	4,038	
4	135.53	52,930	-585	7,315	2,995	10	704	1,746	2,439	0	-6	4,403	
5	134.74	49,680	-3,250	5,477	3,015	8	704	1,795	3,074	0	-131	5,042	
6	134.16	47,353	-2,327	6,251	3,074	13	718	1,823	2,796	0	-154	5,097	
7	134.02	46,800	-553	7,801	3,074	18	722	1,823	2,459	0	-258	5,038	
8	133.48	44,684	-2,116	6,089	3,094	24	724	1,803	2,459	0	-101	5,038	
9	132.69	41,671	-3,013	5,084	3,094	24	739	1,748	2,479	0	-13	5,058	
10	132.24	39,999	-1,672	6,495	3,074	32	771	1,619	2,479	0	-192	5,077	
11	132.01	39,156	-843	7,024	3,015	35	783	1,458	2,479	0	-97	5,056	
12	131.54	37,460	-1,696	6,266	2,995	32	783	1,365	2,479	0	-308	5,075	
13	131.00	35,556	-1,904	5,824	3,035	32	783	1,317	2,439	0	-122	5,037	
14	130.67	34,414	-1,142	6,725	3,054	30	859	1,363	2,419	0	-142	5,019	
15	130.41	33,528	-886	7,011	3,054	30	857	1,444	2,400	0	-112	4,998	
16	130.12	32,551	-977	7,078	3,074	30	843	1,511	2,400	0	-197	4,998	
17	129.70	31,162	-1,389	7,460	3,173	28	843	1,603	3,330	0	128	5,968	
18	128.80	28,280	-2,882	7,460	3,154	26	843	1,670	4,304	0	-345	6,982	
19	127.86	25,413	-2,867	7,460	3,154	24	843	1,785	4,324	0	-197	7,061	
20	127.01	22,946	-2,467	7,872	3,173	26	841	1,853	4,324	0	-122	6,903	
21	126.58	21,744	-1,202	10,170	3,134	24	843	1,914	5,137	0	-320	7,993	
22	127.64	24,763	3,019	15,029	3,114	26	843	1,966	5,830	0	-231	9,045	
23	129.01	28,941	4,178	15,890	3,074	26	843	1,956	5,850	0	37	8,966	
24	130.28	33,088	4,147	15,890	3,035	26	845	1,882	5,850	0	-105	8,946	
25	131.05	35,730	2,642	15,229	2,995	28	843	1,811	6,880	0	-30	9,976	
26	131.33	36,714	984	14,898	2,896	28	829	1,757	7,870	0	-534	10,944	
27	131.64	37,818	1,104	14,898	2,777	28	815	1,817	7,890	0	-467	10,945	
28	132.06	39,339	1,521	15,394	2,856	32	815	1,928	7,910	0	-332	10,965	
29	132.61	41,372	2,033	15,890	2,916	33	813	1,984	7,910	0	-201	10,967	
30	133.17	43,490	2,118	15,372	2,955	33	813	2,023	7,930	0	500	11,006	
Total				-269	296,620	90,860	745	23,710	51,780	124,900	0	-4,894	204,230

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

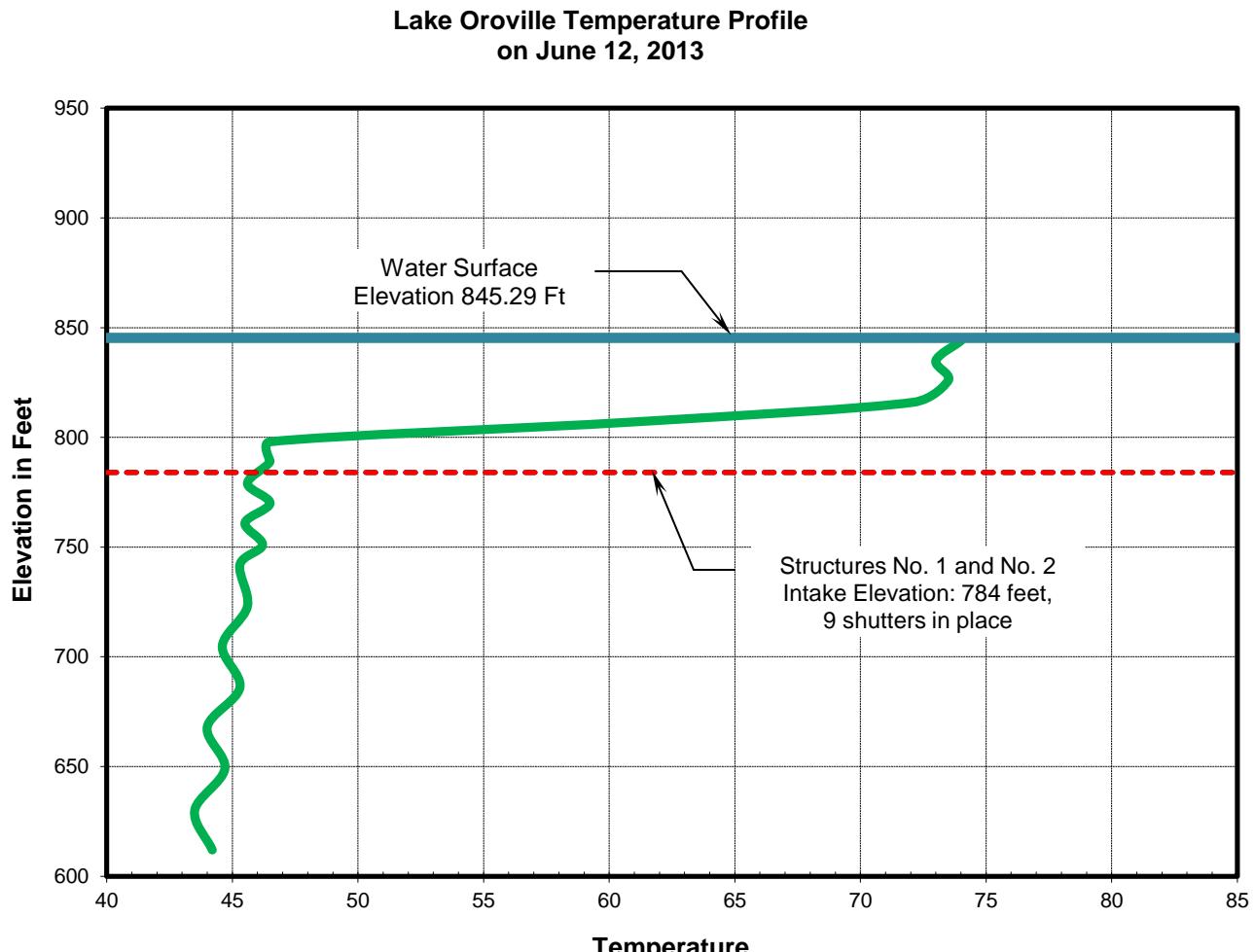
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

June 2013

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	65.9	56.8
2	65.0	56.9
3	63.5	57.3
4	62.6	54.1
5	62.9	54.0
6	63.7	54.3
7	63.9	56.6
8	69.6	59.1
9	67.3	56.3
10	66.7	55.0
11	68.2	56.9
12	68.9	57.7
13	69.3	57.9
14	70.9	58.2
15	69.3	58.8
16	69.5	59.0
17	68.9	59.9
18	67.6	59.9
19	67.9	60.1
20	68.2	61.4
21	68.4	61.3
22	67.4	59.9
23	65.2	54.3
24	63.0	53.5
25	60.6	55.5
26	60.6	59.6
27	63.4	61.2
28	64.0	61.5
29	66.1	57.5
30	66.6	57.8



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)							June 2013				
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Permit	Pool A	Article 56	Settlement Water		
	No.	Structure	Mile						Balanced	Excess	
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	6,570						
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	300				300		
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	343				343		
				Solano County Water Agency Fairfield / Vacaville 42"	2,197				2,197		
			17.00	Solano County Water Agency Central Solano	Stub						
2	3A	Cordelia Forebay	21.23		0						
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,508						
3B	1	Napa Pipeline	21.33	Solano County Water Agency Vallejo	758	754	4				
				Solano County Water Agency Benicia	1,263				1,263		
		Cordelia Surge Tank	23.33		0						
		Creston Surge Tank Connection	25.65		0						
	2		26.95	Napa County Flood Control & WCD American Canyon 2	8	8					
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	1,179	192			987		
			27.60	Napa County Flood Control & WCD American Canyon 1	300	300					

Table 9. Delta Field Division Plant Data

June 2013

(in acre-feet)

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	224	129	2,937	2,937	0	0	507	0	0	0
2	215	117	2,937	2,937	0	0	507	0	0	0
3	222	127	2,937	2,937	0	0	507	0	0	0
4	230	129	1,927	1,927	0	0	568	0	0	0
5	239	134	1,199	1,199	0	0	596	0	0	0
6	216	123	744	744	0	0	581	0	0	0
7	214	106	744	744	0	0	507	0	0	0
8	217	116	1,287	1,287	0	0	507	0	0	0
9	220	119	1,485	1,485	0	0	507	0	0	0
10	197	111	1,488	1,488	0	0	597	0	0	0
11	212	120	4,874	4,874	0	0	656	0	0	0
12	204	106	4,809	4,809	0	0	656	0	0	0
13	231	134	4,041	4,041	0	0	605	0	0	0
14	238	146	3,895	3,895	0	0	505	0	0	0
15	260	115	5,174	5,174	0	0	567	0	0	0
16	314	141	4,167	4,167	0	0	567	0	0	0
17	214	123	3,207	3,207	0	0	567	0	0	0
18	213	117	2,325	2,325	0	0	567	0	0	0
19	219	117	2,196	2,196	0	0	567	0	0	0
20	237	133	1,302	1,302	0	0	636	0	0	0
21	219	116	3,197	3,197	0	0	655	0	0	16
22	226	122	1,663	1,663	0	0	638	0	0	12
23	203	110	1,654	1,654	0	0	566	0	0	0
24	208	115	1,654	1,654	0	0	566	0	0	0
25	155	67	4,744	4,744	0	0	566	0	0	0
26	178	83	5,916	5,916	0	0	566	0	0	0
27	195	101	6,767	6,767	0	0	370	0	0	0
28	228	123	10,986	10,986	0	0	178	0	0	0
29	210	111	11,252	11,252	0	0	178	0	0	0
30	212	97	11,386	11,386	0	0	203	0	0	0
Total	6,570	3,508	112,894	112,894	0	0	15,763	0	0	28

Table 10. Clifton Court Forebay

Daily Operation of Gates

Date	Time											Amount of inflow in Acre-Feet
	Opened	Closed	Opened									
1	00:01	12:00	14:15	19:45								2,958
2	00:01	22:45										2,959
3	00:01	00:30	04:00	10:15	12:15	20:00						2,959
4	00:01	01:30	04:30	11:00	14:00	16:15						1,980
5	00:01	02:30	05:15	11:45								1,435
6	00:23	03:15	05:45	12:30	15:30	18:50						1,968
7	00:01	04:00	06:30	13:00	18:45	20:30						1,565
8	00:01	04:30	07:00	11:45	19:30	22:20						1,566
9	00:01	05:15	07:30	14:00								1,571
10	00:01	06:00	08:00	09:55	12:11	14:45	18:20	19:40				1,966
11	00:01	06:30	08:45	15:15	18:15	23:30						4,938
12	00:01	07:15	09:15	15:45								3,955
13	00:30	08:00	10:00	16:30								3,966
14	00:01	09:00	10:45	17:00	20:00							5,334
15		10:00	11:45	17:45	20:45							5,324
16		11:15	13:00	17:00								3,952
17	00:01	12:15	14:15	19:40								2,956
18	03:05	09:15	12:15	22:00								1,969
19	03:45	10:00										1,565
20	00:01	01:30	04:30	11:00	14:00	22:30						3,953
21	00:01	02:15	05:15	11:45								2,544
22	00:01	03:15	06:09	10:25								1,577
23	00:01	04:15										1,552
24	00:01	05:00	09:00	14:00	17:00	21:40						2,962
25	00:01	06:00	08:30	14:45	17:45							4,944
26		07:00	09:30	15:00	18:30							5,929
27		08:00	10:15	16:30	19:30							8,923
28		09:15	11:30	17:15	20:15	23:15						10,886
29	00:01	10:15	12:30	18:00	21:00							11,898
30		11:30	13:45	23:00								11,801
Total inflow for the month in AF:												121,855

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)							June 2013					
Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending		No.			Table A	USBR	Local	Article 56C	Dry Year Purchase		
	No.	Structure	Mile									
1A			1.83	Byron-Bethany I.D.	3,909			3,909				
1	1	Banks Pumping Plant	3.32		112,894							
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	15,763							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
2A	2	Delta Mendota Canal - California Aqueduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	0							
				Outflow to Delta Mendota Canal from California Aqueduct	0							
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	53		53					
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	81				81			
			42.9	Western Hills WD	157	157						
			43.81	Oak Flat Water District-B	134	134						
			44.64	Oak Flat Water District-C	60	60						
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	216	216						
				Oak Flat Totals:	491	410	0	0	81	0		
		Check No. 9	51.3									
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12		66.14	Veteran's Cemetery	37	37						
		Check No. 12	66.71		114,562							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

June 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Article 56	Purchase Pool B	Local	Rec.	Other	
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	15,763	5						
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	5							
	2	Check No. 1	3.91									
		Check No. 2	5.21									
				Zone 7 Altamont	31		31					
2	2	Check No. 3	9.49	Zone 7 Patterson Storage Exchange	0	390						
				Zone 7 Patterson Project Water	1,390							
	4	Check No. 4	10.68									
	5	Check No. 5	12.29									
	6		13.55	Zone 7 Wente #1	202	202						
			14.16	Zone 7 Wente #2	151		151					
			14.31	Ising Project Water	50		50					
			Check No. 6	14.65								
	7		14.78	Zone 7 Arroyo Mocho Project Water	498	498						
			Check No. 7	16.38								
4	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Wente #3	0	87						
			16.63	Zone 7 Wente #4	87							
			16.69	Zone 7 Norman Nursery	3		3					
			16.70	Zone 7 Concannon Project Water	97		97					
				Pumped into Lake Del Valle	0							
				Pumped into South Bay Aqueduct	0							
				Gravity into South Bay Aqueduct	28							
				Arroyo Valle #1 & #2								
	5	Deliveries through Del Valle Branch Pipeline		Storage Exchange:	604	259						
				Project Water	259							
				Storage Released	0							
				Inflow Release	0							
				East Bay Regional Park Dist.								
				Del Valle Recreation	14							
6				Zone 7 Wente #5	105	105						
				So. Livermore Project	2,391							
			19.20	So. Livermore Inflow Released	0							
				So. Livermore Stored Exchanged	0							
7		La Costa Tunnel	19.21	Zone 7 - Kalthrof Detjens	78	78						
			22.50	ACWD								
				Vallecitos Project Water	0							
8		Mission Tunnel	25.97	City of San Francisco		231						
				San Antonio	0							
				ACWD - Bayside 1 & 2								
9		Santa Clara Pipeline	28.97	Project Water	2,453	3,377						
				Storage Released	0							
				Storage Exchange:	0							
			35.86	S.C.V.W.D. Meter	7,377							

1/ Semitropic Water Bank Recovery through Table A exchange.

Table 13. Lake Del Valle Daily Operation											
June 2013											
Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
May 31	703.46	40,241									
1	703.46	40,241	0	18	0	0	0	1	17	18	0.00
2	703.43	40,219	-21	-2	0	0	0	1	18	19	0.00
3	703.40	40,198	-21	-6	0	0	0	1	14	15	0.00
4	703.40	40,198	0	15	0	0	0	1	14	15	0.00
5	703.23	40,077	-121	-107	0	0	0	1	12	13	0.00
6	703.36	40,169	92	106	0	0	0	1	13	14	0.00
7	703.34	40,155	-14	-1	0	0	0	1	12	13	0.00
8	703.31	40,134	-21	-5	0	0	0	1	15	16	0.00
9	703.28	40,113	-21	0	0	0	0	1	20	21	0.00
10	703.28	40,113	0	19	0	0	0	1	18	19	0.00
11	703.25	40,091	-21	-10	0	0	0	1	11	12	0.00
12	703.25	40,091	0	12	0	0	0	1	11	12	0.00
13	703.19	40,049	-43	-29	0	0	0	1	13	14	0.00
14	703.15	40,020	-28	-12	0	0	0	1	15	16	0.00
15	703.16	40,028	7	21	0	0	0	0	14	14	0.00
16	703.11	39,992	-35	-24	0	0	0	0	12	12	0.00
17	703.11	39,992	0	15	0	0	0	0	15	15	0.00
18	703.06	39,957	-35	-24	0	0	0	0	11	11	0.00
19	703.04	39,943	-14	-2	0	0	0	0	12	12	0.00
20	703.02	39,928	-14	-2	0	0	0	0	12	12	0.00
21	702.98	39,900	-28	-1	0	0	16	0	11	27	0.00
22	702.94	39,872	-28	-2	0	0	12	0	14	26	0.00
23	702.91	39,851	-21	-6	0	0	0	0	15	15	0.00
24	702.91	39,851	0	5	0	0	0	0	5	5	0.04
25	702.91	39,851	0	3	0	0	0	0	3	3	0.01
26	702.88	39,829	-21	-11	0	0	0	0	11	11	0.00
27	702.88	39,829	0	15	0	0	0	0	15	15	0.00
28	702.85	39,808	-21	-5	0	0	0	0	16	16	0.00
29	702.81	39,780	-28	-5	0	0	0	0	23	23	0.00
30	702.79	39,766	-14	7	0	0	0	0	21	21	0.00
Total				-475	-18	0	0	28	14	415	457
0.05											

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

3/ To East Bay Regional Park District.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

June 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
May 31	220.79	45,210											
1	220.89	45,472	262	0	0	6,777	994	1,810	0	5,633	15	-181	
2	220.83	45,315	-157	0	0	6,740	1,046	1,793	0	5,707	15	-350	
3	222.60	49,980	4,665	0	0	6,672	1,118	1,469	0	3,781	15	-173	
4	223.62	52,705	2,725	0	0	6,617	859	1,891	0	4,364	15	168	
5	222.41	49,474	-3,231	0	0	6,562	260	1,809	0	6,829	15	202	
6	222.40	49,447	-27	0	0	6,541	192	1,629	0	5,252	7	141	
7	222.09	48,624	-823	0	0	6,520	173	1,559	0	5,656	7	114	
8	221.87	48,045	-579	0	0	6,497	472	1,327	0	5,672	7	-255	
9	222.13	48,730	685	0	0	6,452	564	1,527	0	5,348	7	211	
10	222.39	49,421	691	0	0	6,400	534	1,405	0	5,196	7	22	
11	223.10	51,313	1,892	0	0	6,377	1,875	1,484	0	5,786	7	-21	
12	223.33	51,928	615	0	0	6,143	1,949	1,769	0	5,984	8	-21	
13	222.02	48,438	-3,490	0	0	4,744	1,842	1,731	0	6,599	16	0	
14	221.83	47,940	-498	0	0	5,836	1,872	1,852	0	5,985	16	-106	
15	222.43	49,527	1,587	0	0	6,272	2,538	1,884	0	6,005	16	-105	
16	221.84	47,966	-1,561	0	0	4,710	1,331	1,651	0	5,103	16	-58	
17	221.81	47,887	-79	0	0	4,685	1,762	1,597	0	4,981	16	107	
18	221.21	46,311	-1,576	0	0	6,240	823	2,044	0	5,752	16	-46	
19	220.81	45,263	-1,048	0	0	6,220	600	2,176	0	5,090	16	-66	
20	220.02	43,204	-2,059	0	0	6,197	360	1,974	0	5,484	10	-127	
21	219.65	42,248	-956	0	0	6,180	1,206	2,315	0	5,359	10	-184	
22	219.58	42,067	-181	0	0	6,938	407	2,819	0	4,524	10	-83	
23	219.65	42,248	181	0	0	6,832	484	2,756	0	4,445	10	-14	
24	220.37	44,114	1,866	0	0	6,713	718	2,140	0	4,322	10	-18	
25	222.13	48,730	4,616	0	0	6,793	1,923	2,170	0	4,332	10	123	
26	222.74	50,353	1,623	0	0	5,290	2,778	2,161	0	5,323	10	244	
27	222.76	50,406	53	0	0	5,845	3,067	2,129	0	6,791	36	71	
28	223.25	51,714	1,308	0	0	4,394	5,680	2,199	0	7,138	36	-42	
29	223.54	52,491	777	0	0	4,124	5,495	2,281	0	6,846	36	-64	
30	223.01	51,073	-1,418	0	0	2,906	5,615	2,408	0	6,741	36	-51	
Total				5,863	0	0	179,217	48,537	57,759	0	166,028	451	-562
Mean cfs					0	0	5,974	1,618	1,925	0	5,534	15	-19
Acre-feet				5,863	0	0	355,469	96,276	114,562	0	329,315	895	-1,110

1/ Pump-in located at Mile 79.67R.

2/ Includes 107 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 787 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

June 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
May 31	430.43	784,896						
1	428.99	771,654	-13,242	0	6,777	243	0.0	344
2	427.52	758,215	-13,439	0	6,740	237	0.0	202
3	426.02	744,586	-13,629	0	6,672	245	0.0	46
4	424.29	728,961	-15,625	0	6,617	246	0.0	-1,014
5	422.83	715,863	-13,098	0	6,562	258	0.0	217
6	421.36	702,764	-13,099	0	6,541	267	0.0	204
7	419.85	689,404	-13,360	0	6,520	275	0.0	59
8	418.40	676,665	-12,739	0	6,497	269	0.0	344
9	416.92	663,755	-12,910	0	6,452	252	0.0	195
10	415.42	650,765	-12,990	0	6,400	244	0.0	95
11	414.27	640,871	-9,894	0	6,377	248	0.0	1,637
12	412.84	628,648	-12,223	0	6,143	249	0.0	230
13	411.66	618,629	-10,019	0	4,744	271	0.0	-36
14	410.28	606,987	-11,642	0	5,836	258	0.0	225
15	408.78	594,428	-12,559	0	6,272	253	0.0	193
16	407.59	584,534	-9,894	0	4,710	235	0.0	-43
17	406.44	575,032	-9,502	0	4,685	227	0.0	121
18	404.95	562,808	-12,224	0	6,240	111	0.0	188
19	403.42	550,357	-12,451	0	6,220	188	0.0	131
20	401.86	537,770	-12,587	0	6,197	222	0.0	73
21	400.34	525,610	-12,160	0	6,180	235	0.0	284
22	398.58	511,661	-13,949	0	6,938	224	0.0	129
23	396.88	498,319	-13,342	0	6,832	191	0.0	297
24	395.15	484,878	-13,441	0	6,713	199	0.0	136
25	393.39	471,343	-13,535	0	6,793	206	0.0	175
26	391.94	460,300	-11,043	0	5,290	201	0.0	-76
27	390.40	448,677	-11,623	0	5,845	262	0.0	247
28	389.19	439,622	-9,055	0	4,394	312	0.0	141
29	388.03	431,005	-8,617	0	4,124	321	0.0	101
30	387.19	424,805	-6,200	0	2,906	169	0.5	-50
Total			-360,091	0	179,217	7,118	0.5	4,795
Mean cfs				0	5,974	237	0	160
Acre-feet			-360,091	0	355,469	14,115	1	9,494

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 12,356 AF, Casa De Fruta 0 AF, and San Benito 1,759 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)							
Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,174	7,167	13,442	5,923	0	0	482
2	11,320	7,317	13,369	5,793	0	0	470
3	7,499	3,530	13,233	3,628	0	0	485
4	8,656	4,354	13,124	6,615	0	0	487
5	13,545	9,452	13,015	6,468	0	0	511
6	10,418	6,317	12,975	6,414	0	0	530
7	11,218	8,077	12,932	5,008	0	0	545
8	11,250	7,137	12,886	4,929	0	0	534
9	10,607	6,581	12,797	6,079	0	0	500
10	10,307	7,172	12,694	4,615	0	0	484
11	11,477	8,317	12,648	5,799	0	0	492
12	11,869	7,736	12,184	8,717	0	0	493
13	13,089	9,036	9,409	2,501	0	0	538
14	11,872	7,837	11,576	3,261	0	0	511
15	11,910	7,844	12,440	5,401	0	0	501
16	10,122	5,665	9,342	2,852	0	0	466
17	9,879	5,468	9,293	-528	0	0	451
18	11,410	6,978	12,377	2,575	0	0	221
19	10,096	5,700	12,337	4,525	0	0	373
20	10,877	7,533	12,291	4,407	0	0	441
21	10,630	6,393	12,258	4,336	0	0	466
22	8,973	4,636	13,762	5,778	0	0	445
23	8,816	4,510	13,551	5,813	0	0	379
24	8,572	4,222	13,315	5,441	0	0	395
25	8,592	4,140	13,473	3,447	0	0	408
26	10,558	5,906	10,493	2,748	0	0	398
27	13,470	8,978	11,594	3,504	0	0	519
28	14,159	9,666	8,715	-439	0	0	618
29	13,580	9,967	8,179	767	0	0	636
30	13,370	9,791	5,765	-646	0	0	336
Total	329,315	207,427	355,469	125,731	0	0	14,115

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

June 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
May 31	320.41	17,264			0	0	0
1	320.41	17,264	0	0	0	0	0
2	320.37	17,247	-17	0	0	0	-17
3	320.34	17,235	-12	0	0	0	-12
4	320.31	17,222	-13	0	0	0	-13
5	320.29	17,213	-9	0	0	0	-9
6	320.28	17,209	-4	0	0	0	-4
7	320.28	17,209	0	0	0	0	0
8	320.25	17,196	-13	0	0	0	-13
9	320.20	17,175	-21	0	0	0	-21
10	320.18	17,166	-9	0	0	0	-9
11	320.17	17,162	-4	0	0	0	-4
12	320.12	17,141	-21	0	0	0	-21
13	320.12	17,141	0	0	0	0	0
14	320.07	17,120	-21	0	0	0	-21
15	320.03	17,103	-17	0	0	0	-17
16	320.02	17,098	-5	0	0	0	-5
17	319.98	17,080	-18	0	0	0	-18
18	319.97	17,076	-4	0	0	0	-4
19	319.90	17,046	-30	0	0	0	-30
20	319.87	17,033	-13	0	0	0	-13
21	319.84	17,021	-12	0	0	0	-12
22	319.82	17,012	-9	0	0	0	-9
23	319.79	17,000	-12	0	0	0	-12
24	319.77	16,991	-9	0	0	0	-9
25	319.76	16,987	-4	0	0	0	-4
26	319.74	16,978	-9	0	0	0	-9
27	319.73	16,974	-4	0	0	0	-4
28	319.68	16,953	-21	0	0	0	-21
29	319.64	16,936	-17	0	0	0	-17
30	319.68	16,953	17	9	0	0	-1
Total			-311	9	0	0	-329
Mean cfs				0	0	0	
Acre-feet			-311	18	0	0	-329

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

June 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
May 31	602.40	815					
1	Not Observed	815	0	0	0	0	0
2	Not Observed						
3	Not Observed						
4	Not Observed						
5	Not Observed						
6	Not Observed						
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	602.40	815	0	0	0	0	0
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	602.40	815	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs				0	0	0	0
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

June 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		114,562						
3A		San Luis Reservoir		Department of Parks and Recreation	1			1			
				San Felipe Division Santa Clara Water District	12,356	12,356					
				Casa de Fruita Santa Clara Water District	0						
				San Felipe Division San Benito Water District	1,759	1,759					
				Reach 3A Subtotal:	14,116	14,115	0	1	0		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1			1			
				Cattle Program							
				Department of Fish & Game	107			58	49		
		Thru	70.91	San Luis Water District	787	787					
			85.08	(Floodwater Inflow)							
				Reach 3 Subtotal:	895	787	0	59	49		
		Dos Amigos Pumping Plant	86.73		329,315						
4	14		89.03	San Luis Water District	8,750	8,750					
			Thru 94.06								
			89.66	Pacheco Water District	2,058	2,058					
			Thru 89.67								
			89.68	Panoche Water District	25	25					
		Check No. 14	89.70	City of Dos Palos	233	233					
	15		95.06								
			98.15	San Luis Water District	2,682	2,682					
			Thru 104.20								
			96.15	Panoche Water District	5,729	5,729					
			Thru 102.64	(Floodwater Inflow)							
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	13,412	13,412					
			Thru 108.64								
Check No.15		108.50									
		Reach 4 Subtotal:	32,889	32,889	0	0	0				
		San Felipe Division Total:	14,115	14,115	0	0	0				
		Pacheco Water District Total:	2,058	2,058	0	0	0				
		Broadview Water District Total:	0	0	0	0	0				
		City of Dos Palos Total:	233	233	0	0	0				
		SLWD Reach 4 Subtotal:	11,432	11,432	0	0	0				
		Panoche Water District Total:	5,754	5,754	0	0	0				
		SLWD Total:	12,219	12,219	0	0	0				
		Westlands WD Reach 4 Subtotal:	13,412	13,412	0	0	0				

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

June 2013

(In acre-feet)				Deliveries				June 2013	
Reach No.	Operating Pool		Turnout	Total Diversions	USBR	Transfer	DWR Recreation	USBR Recreation	
		Beginning and Ending			14,390	6,715	11,782	9,497	
		No.	Structure	Mile					
5	16			(Reverse flow, Kings River)	0				
				110.52	14,390	14,390			
				Westlands Water District					
				Thru	57			57	
				Dept. of Fish and Game @ Lat. 4L					
	17			122.05	0				
				Dept. of Fish and Game @ Lat. 6L					
				Dept. of Fish and Game @ Lat. 7L	0				
	Check No. 16		122.07						
	18			124.18	Westlands Water District	6,715	6,715		
				Thru					
				132.74					
				Check No. 17	132.95				
6	19			133.81	Westlands Water District	11,782	11,782		
				Thru					
				142.61					
				Pleasant Valley Pumping Plant	Westlands Water District	9,497	9,497		
				143.16					
				143.16	City of Coalinga	536	536		
	Check No. 18			143.23					
					Reach 5 Subtotal:	42,977	42,920	0	
							0	57	
7	19			GWF Energy	0				
				145.26	5	5			
				Thru					
				151.19	347	1/ 347			
				Kings County to Lemoore NAS Through WWD					
				Kings County through WWD 30L	0				
				Westlands Water District	18,226	18,226			
	Check No. 19			155.64					
					Reach 6 Subtotal:	18,578	18,231	347	
							0	0	
8	20			156.34	City of Huron	112	112		
				156.40	SWP Construction @ Lat. 24R	0			
				Thru					
				163.69	Westlands Water District	7,165	7,165		
				Check No. 20					
	21			164.69					
				164.79	City of Avenal	244	244		
				167.04					
				Thru					
				171.67	Westlands Water District	3,399	3,399		
	Check No. 21		172.40			217,574			
				Reach 7 Total:	10,920	10,920	0		
				2/ SWP Const. / GWF Energy	0	0	0		
				Westlands WD Total:	84,643	84,586	0		
				City of Coalinga Total:	536	536	0		
				City of Huron Total:	117	117	0		
				Kings County to Lemoore NAS Through WWD	347	0	347		
				City of Avenal Total:	244	244	0		
				Total San Luis Field Division Deliveries:	120,374	119,862	347		
						59	106		

1/ SWP water, from County of Kings to Westlands Water District, Table A.

2/ Includes GWF Energy water and DWR construction water 22R.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
June 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
May 31	28,747								
1	29,018	271	0	5,633	264	101	1,494	3,722	84
2	30,148	1,130	0	5,707	264	101	1,494	3,771	493
3	29,467	-681	0	3,781	264	101	1,494	2,498	232
4	28,168	-1,299	0	4,364	265	101	1,495	2,883	-276
5	29,290	1,122	0	6,829	265	101	1,495	4,512	110
6	28,726	-564	0	5,252	271	101	1,514	3,470	-181
7	29,115	389	0	5,656	271	101	1,514	3,737	163
8	28,834	-281	0	5,672	271	101	1,514	3,747	-181
9	28,738	-96	0	5,348	271	101	1,514	3,533	23
10	28,694	-44	0	5,196	271	101	1,514	3,433	101
11	28,295	-399	0	5,786	271	101	1,514	3,823	-278
12	27,901	-394	0	5,984	271	101	1,514	3,953	-343
13	28,908	1,007	0	6,599	219	100	1,434	4,361	23
14	29,027	119	0	5,985	219	100	1,434	3,954	-218
15	29,306	279	0	6,005	219	100	1,434	3,968	-144
16	29,107	-199	0	5,103	219	100	1,434	3,372	-78
17	28,596	-511	0	4,981	219	100	1,434	3,291	-195
18	28,835	239	0	5,752	219	100	1,434	3,800	-79
19	28,351	-484	0	5,090	219	100	1,434	3,363	-218
20	28,805	454	0	5,484	217	67	1,372	3,623	24
21	28,695	-110	0	5,359	217	67	1,372	3,541	-218
22	28,134	-561	0	4,524	217	67	1,372	2,989	-162
23	29,117	983	0	4,445	217	68	1,372	2,936	644
24	29,013	-104	0	4,322	217	68	1,372	2,855	138
25	28,674	-339	0	4,332	217	68	1,372	2,862	16
26	28,910	236	0	5,323	217	68	1,372	3,517	-30
27	30,000	1,090	0	6,791	162	129	1,397	4,486	-67
28	29,036	-964	0	7,138	162	129	1,397	4,716	-1,220
29	28,737	-299	0	6,846	162	129	1,397	4,523	-786
30	29,321	584	0	6,741	162	129	1,398	4,453	-305
Total		574	0	166,028	6,919	2,901	43,301	109,692	-2,928
Mean cfs			0	5,534	231	97	1,443	3,656	-98
Acre-feet		574	0	329,315	13,723	5,754	85,887	217,574	-5,803

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 2,059 AF to Pacheco W.D., 233 AF to the City of Dos Palos and 11,432 AF to San Luis Water District.

3/ Includes 112 AF to the City of Huron, 244 AF to the City of Avenal, 536 AF to the City of Coalinga, 5 AF to City of Huron P&R @ 22R, 347 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Kings County @ 37L - 38L, 0 AF to Broadview WD @ 4L, 57 AF DFG @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF Non-Project Water, 84,586 AF to Westlands Water District.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

June 2013

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	408	392	86	81	86	4,984	4,185	3,914	3,806
2	514	421	98	87	99	4,715	4,162	3,975	3,833
3	562	455	89	81	87	2,655	2,367	2,115	2,061
4	576	523	42	39	45	2,958	2,155	1,895	1,782
5	581	541	50	45	50	4,268	3,550	3,189	2,979
6	604	573	75	69	77	4,127	3,403	3,147	3,044
7	681	656	125	112	123	3,563	3,060	2,738	2,580
8	671	610	135	123	132	3,891	2,958	2,686	2,572
9	585	541	91	83	93	4,556	4,250	4,072	3,966
10	610	249	105	95	105	3,350	2,982	2,755	2,715
11	643	485	63	55	64	4,017	2,992	2,748	2,885
12	592	542	56	65	58	3,378	2,973	2,686	2,500
13	615	575	80	74	83	3,590	3,056	2,772	2,596
14	600	549	51	44	51	3,966	3,233	2,979	2,850
15	608	549	69	62	70	3,528	3,509	3,004	2,958
16	622	569	69	61	69	3,836	3,372	3,153	3,164
17	618	575	71	63	71	3,333	3,224	2,936	2,884
18	612	479	62	55	62	3,910	3,288	2,952	2,861
19	628	491	58	53	61	3,952	3,213	2,862	2,684
20	643	593	59	53	60	3,475	2,678	2,562	2,471
21	684	610	58	53	60	4,770	3,441	3,153	2,994
22	651	587	56	53	60	3,345	2,499	2,268	2,164
23	721	607	99	87	95	2,616	2,161	2,064	2,094
24	656	579	7	10	12	2,260	1,938	1,704	1,638
25	690	588	91	82	94	1,519	1,294	981	860
26	717	635	96	82	91	2,860	2,500	2,122	2,030
27	676	600	68	59	68	5,840	5,581	5,221	5,101
28	715	635	114	100	110	6,449	5,620	5,190	5,004
29	684	526	77	67	75	6,591	5,647	5,316	5,778
30	658	509	40	37	41	6,823	6,104	5,774	5,770
Total	18,825	16,244	2,240	2,030	2,252	119,125	101,395	92,933	90,624

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

June 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Kern water bank recovery	Pump-in Recovery	Article 56	Other			
	No.	Structure	Mile										
7	21	Check No. 21	172.40		217,574								
8C	22			Empire West Side ID TL - A	0								
				172.66 County of Kings TL - A	530	530							
				Tulare Lake Basin WSD TL-A	3,159	88			2,366	1/ 705			
				175.18 Dudley Ridge WD - 1	608					2/ 608			
				177.54 Dudley Ridge WD - 1B	255				255				
				180.64 Tulare Lake Basin WSD - C	0								
				180.65 Dudley Ridge WD - 1A	1,032				741	3/ 291			
				182.99 Dudley Ridge WD - 2	2,199		154		104	2/ 1,941			
				183.00 Tulare Lake Basin WSD TL - B	3,186	3,186							
				County of Kings TL-B	798	798							
31A				184.00 Dudley Ridge WD - Paramount	2				2				
				184.63 Coastal Branch	18,825								
8D				184.78 Dudley Ridge WD - 3	2,546		2,546						
				Dudley Ridge Reach 8D Total:	6,642	0	2,700	0	1,102	2,840			
9	23			Tulare Lake Basin WSD Total:	6,345	3,274	0	0	2,366	705			
				Check No. 22	184.82								
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	8,860	3,000		674		4/ 5,186			
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	1,970			1,970					
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	1,119			1,119					
				196.40 Kern County Water Agency Berrenda Mesa - 2	1,060			1,060					
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	2,417			2,417					
10A	24			K.C.W.A. Reach 9 Subtotal:	15,426	3,000	0	7,240	0	5,186			
				Check No. 23	197.05								
				201.24 Kern County Water Agency Lost Hills Water Dist. - 7	1,241			1,241					
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	1,432			1,432					
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	9	9							
10A	25			206.99 Kern County Water Agency Semitropic WSD - 3	194			194					
				Check No. 24	207.94								
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	3,543	3,468		75					
				209.78 Kern National Wildlife Refuge USBR BV-1B	0								
					722	245			477				
				209.80 KCWA Semitropic WSD	7,044	5,000			2,044				
					0								
				USBR Total:	0		0						
				K.C.W.A. Reach 10A Subtotal:	14,185	8,722	0	2,942	2,521	0			

1/ Includes 105 AF of Pool A and 600 AF of Friant Recirculation.

2/ Table A transfer

3/ Dudley Ridge WD Exchange to Kern County WA.

4/ Includes 5,186 AF of KCWA recovery of pump in water that was stored.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)					June 2013				
Reach No.	rating Pool ing and Ending		Turnout	Total Diver-sions	Deliveries				
	No.	Structure			Table A	Kern water bank recovery	Pump-in Recovery	Article 56	Other
11B	25		210.75	Kern County Water Agency Belridge - 2	0				
			214.11	Kern County Water Agency Belridge - 3	1,208	1,208			
			216.62	Kern County Water Agency Belridge - 4	0				
			217.13	Kern County Water Agency Belridge - 5A-C	18,035	1,304		16,731	
				Kern County Water Agency Belridge - 5D	175	175			
		Check No. 25	217.79						
				K.C.W.A. Reach 11B Subtotal:	19,418	2,687	0	0	16,731
12D	26		219.58	Kern County Water Agency Belridge - 6	0				
				Kern County Water Agency West Kern - 3	291	291			
		Check No. 26	224.92						
12E	27		230.37	Kern County Water Agency Buena Vista - 6	1,744				1,744
			Check No. 27	231.73					
			235.75	Kern County Water Agency Buena Vista - 2	4,695				4,695
				Kern County WA CVC	8,807	8,005			2/ 802
				Buena Vista WSD CVC-2 T429	727	727			
			238.04	Buena Vista WSD - 8	5,061				4,573
				Lower Tule River	0				2/ 488
				Fresno Co.	0				
				Pixley ID	0				
				Hacienda					
				DWR Wells	0				
		Check No. 28	238.11						
				1/ Arvin Edison Total:	0	0	0	0	0
				Reach 12E Subtotal:	21,034	8,732	0	11,012	1,290
13B	29		238.19	Kern Water Bank Inflow	0				
				Kern Water Bank Outflow	0				
			241.02	Kern River Intertie (inflow)	0				
			242.85	KCWA Buena Vista WSD - 7	0				
				KCWA Buena Vista WSD - 5	1,289				1,289
			243.09	Kern County Water Agency Buena Vista - 3	1,793				1,793
			Check No. 29	244.54					
			30	249.85	Kern County Water Agency Buena Vista - 4	1,756			1,756
			Buena Vista Pumping Plant	250.99		119,125			
					K.C.W.A. Reach 13B Subtotal:	4,838	0	0	4,838
14A	31	San Joaquin County Water Age	254.47	West Kern - 2	0				
				Wheeler Ridge-Maricopa - 2	596				596

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID and Pixley ID.

2/ Friant-Kern Recirculation delivered to Arvin Edison WSD.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

June 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Kern water bank recovery	Pump-in Recovery	Article 56	Other		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14									
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	923				923			
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	2,935				2,935			
			261.72									
				KCWA Reach 14A Subtotal:	4,454	0	0	0	4,454	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	5,321				5,321			
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	979				979			
	Check No. 33		267.36									
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	3,551				3,551			
			271.27									
				Reach 14B Total:	9,851	0	0	0	9,851	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,536	384			2,152			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,144	1,144						
			277.30	Kern County Water Agency Arvin-Edison WSD	14					1/ 14		
				Reach 14C Total:	3,694	1,528	0	0	2,152	14		
	Teerink Pumping Plant		278.13		101,395							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	1,049	1,049						
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	4,460	4,460						
				Reach 15-A Total:	5,509	5,509	0	0	0	0		
	Chrisman Pumping Plant		280.36		92,933							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
			283.95									
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	41	41						
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	155	155						
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
			Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	224	224						
			Check No. 39	290.21								
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,323	1,323						
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	532	532						
				Kern County Water Agency Tehachapi Cummings CWD	1,186	1,186						
				K.C.W.A. Reach 16A Subtotal:	3,461	3,461	0	0	0	0		
17E	Edmonston Pumping Plant		293.45		90,624							

1/ MWD Table A delivered to Arvin Edison WSD for storage.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

June 2013

(In acre-feet)		Deliveries					
Reach No.	Operating Pool		Turnout	Total Diversions			
	Beginning and Ending						
	No.	Structure	Mile		Table A	USBR	
31A	C-1	Coastal Branch Control	0.02		18,825		
		Las Perillas Pumping Plant	1.16		18,825		
	C-2		3.79	Green Valley Water District	0		
		Badger Hill Pumping Plant	4.27		16,244		
	C-3	Coastal Check No. 3	7.21				
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	194	194	
		Coastal Check No. 4	9.34				
	C-5	Coastal Check No. 5	12.20				
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	275	275	
			14.83	Kern County Water Agency Berrenda Mesa - 1	14,132	8,753	
				Kern County Water Agency Berrenda Mesa - PO	0	5,379	
		Devil's Den Pumping Plant	14.86		2,240		
				K.C.W.A. Reach 31A Subtotal:	14,407	9,028	
				K.C.W.A. Total:	116,568	42,958	
33A	C-7	Bluestone Pumping Plant	19.05		2,030		
	C-8	Polonio Pass Pumping Plant	26.54		2,252		
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant			
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,887		
		Tank Site 2	58.63	Central Coast:	0		
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	366		
		Energy Dissipater	78.12				
		Lopez T.O.	85.86	SLOCFC & WCD	0		
35	C-12			CCWA Total:	2,253	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0		
		Santa Maria T.O.	107.43	SBCFC & WCD	0		
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0		
38				SBCFC & WCD Total:	0		
		Tank Site 5	115.42				

Table 24. Southern Field Division Plant Data

(in acre-feet)

June 2013

Date	West Branch							East Branch							East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	1,751	1,438	0	0	2,150	1,969	0	0	1,760	1,819	1,829	0	0	1,054	72	60	32
2	1,855	1,437	0	0	815	2,033	0	0	1,755	1,735	1,676	0	0	1,195	75	60	31
3	1,006	1,436	0	0	3,940	0	0	0	628	763	618	0	0	1,261	75	60	31
4	529	847	0	0	2,249	1,011	0	0	876	792	807	0	0	1,085	75	60	32
5	1,543	1,440	0	0	2,512	1,312	0	0	1,138	987	963	0	0	1,233	75	60	32
6	1,493	1,441	0	0	1,498	1,069	0	0	1,258	1,179	1,348	0	0	1,227	75	60	32
7	1,273	1,080	0	0	2,571	0	0	0	862	1,086	1,036	0	0	1,163	75	60	32
8	1,332	1,430	0	0	356	0	0	0	1,040	1,115	1,031	0	0	1,164	75	60	32
9	1,755	1,387	0	0	299	0	0	0	1,996	2,013	2,092	0	0	1,077	75	60	32
10	1,487	962	0	0	2,069	0	0	0	926	987	1,036	0	0	1,156	75	60	32
11	1,378	1,439	0	0	2,687	1,337	0	0	1,149	800	694	0	11	1,044	75	60	32
12	1,273	1,442	0	0	879	0	0	0	884	1,140	1,205	0	0	1,099	75	60	32
13	1,217	1,382	0	0	1,797	0	0	0	1,339	1,174	1,312	0	0	1,106	75	60	32
14	1,380	1,418	0	0	1,577	0	0	0	1,116	1,070	913	0	0	1,126	75	60	31
15	1,700	1,504	0	0	429	0	0	0	1,008	1,109	833	0	0	1,164	75	60	31
16	1,753	1,510	0	0	1,889	0	0	0	1,041	1,028	1,073	0	0	1,089	75	60	31
17	1,702	1,475	0	0	2,119	51	0	0	1,091	1,044	1,060	0	0	1,107	75	60	32
18	1,380	1,215	0	0	1,325	1,279	0	0	1,207	1,075	949	0	0	1,224	75	60	31
19	1,264	1,531	0	0	1,257	0	0	0	1,042	1,075	1,256	0	0	1,136	75	60	31
20	949	1,073	0	0	2,561	0	0	0	976	1,048	1,064	0	0	1,143	75	60	32
21	1,705	893	0	0	2,510	0	0	0	995	1,013	933	0	0	1,110	75	60	32
22	742	1,067	0	0	127	0	0	0	1,123	1,014	932	0	0	1,094	75	60	32
23	635	660	0	0	115	0	0	0	1,057	861	763	0	0	1,132	75	62	32
24	582	494	0	0	123	101	0	0	926	798	722	0	0	1,140	75	65	32
25	212	362	0	0	1,290	1,082	0	0	603	714	730	0	0	1,106	75	76	32
26	626	479	0	0	2,914	0	0	0	1,107	1,203	1,282	0	0	1,115	75	76	32
27	2,766	3,190	0	0	3,193	11	0	0	1,835	1,751	1,661	0	0	1,125	85	76	32
28	2,927	3,154	0	0	3,555	553	0	0	1,694	1,584	1,529	0	0	1,262	85	76	31
29	3,193	3,145	0	0	3,190	1,230	0	0	1,752	1,794	1,700	0	0	1,197	85	76	32
30	3,195	2,900	0	0	803	1,368	0	0	2,099	2,231	2,420	0	0	1,170	85	76	32
Total	44,603	43,231	0	0	52,799	14,406	0	0	36,283	36,002	35,467	0	11	34,304	2,287	1,904	952

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft				(in acre-feet except as noted)								June 2013		
Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)		
				Project			Natural	Project			To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.			
May 31	2,574	164,321												
1	2,575	165,485	1,164	1,969	1,438	0	5	2,150	0	8	1	-89		
2	2,577	168,215	2,730	2,033	1,437	0	4	815	0	8	1	80		
3	2,575	165,676	-2,539	0	1,436	0	5	3,940	0	8	0	-32		
4	2,574	165,257	-419	1,011	847	0	5	2,249	0	8	0	-25		
5	2,575	165,460	203	1,312	1,440	0	5	2,512	0	6	1	-35		
6	2,575	166,477	1,017	1,069	1,441	0	5	1,498	0	6	0	6		
7	2,574	164,991	-1,486	0	1,080	0	5	2,571	0	6	0	6		
8	2,575	165,917	926	0	1,430	0	5	356	0	6	1	-146		
9	2,576	167,012	1,095	0	1,387	0	5	299	0	6	0	8		
10	2,575	165,777	-1,235	0	962	0	5	2,069	0	6	0	-127		
11	2,575	165,866	89	1,337	1,439	0	5	2,687	0	6	1	2		
12	2,575	166,477	611	0	1,442	0	5	879	0	6	0	49		
13	2,575	166,031	-446	0	1,382	0	5	1,797	0	6	0	-30		
14	2,575	165,676	-355	0	1,418	0	5	1,577	0	6	1	-194		
15	2,576	166,732	1,056	0	1,504	0	6	429	0	6	1	-18		
16	2,575	166,439	-293	0	1,510	0	6	1,889	0	6	0	86		
17	2,575	165,828	-611	51	1,475	0	6	2,119	0	6	1	-17		
18	2,576	167,012	1,184	1,279	1,215	0	6	1,325	0	6	0	15		
19	2,576	167,345	333	0	1,531	0	6	1,257	0	6	0	59		
20	2,575	165,612	-1,733	0	1,073	0	5	2,561	0	6	1	-243		
21	2,573	163,892	-1,720	0	893	0	4	2,510	0	6	0	-101		
22	2,574	164,738	846	0	1,067	0	4	127	0	6	0	-92		
23	2,574	165,194	456	0	660	0	5	115	0	5	1	-88		
24	2,575	165,574	380	101	494	0	5	123	0	5	0	-92		
25	2,575	165,790	216	1,082	362	0	5	1,290	0	5	0	62		
26	2,573	163,325	-2,465	0	479	0	5	2,914	0	5	1	-29		
27	2,573	163,149	-176	11	3,190	0	4	3,193	0	5	0	-183		
28	2,573	163,262	113	553	3,154	0	4	3,555	0	5	0	-38		
29	2,574	164,359	1,097	1,230	3,145	0	4	3,190	0	4	1	-87		
30	2,576	167,882	3,523	1,368	2,900	0	4	803	0	4	0	58		
Total				3,561	14,406	43,231	0	148	52,799	0	178	12	-1,235	

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
May 31	1512.53	20,171								
1	1513.11	20,401	230	2,150	0	1,969	0	0	49	
2	1509.92	19,153	-1,248	815	0	2,033	0	0	-30	
3	1519.50	23,028	3,875	3,940	0	0	0	0	-65	
4	1519.46	23,011	-17	2,249	0	1,011	0	1,255	0	
5	1512.05	19,982	-3,029	2,512	0	1,312	0	4,243	14	
6	1506.21	17,754	-2,228	1,498	0	1,069	0	2,670	13	
7	1510.93	19,544	1,790	2,571	0	0	0	700	-81	
8	1511.81	19,887	343	356	0	0	0	0	-13	
9	1512.47	20,147	260	299	0	0	0	0	-39	
10	1515.62	21,413	1,266	2,069	0	0	0	813	10	
11	1509.58	19,023	-2,390	2,687	0	1,337	0	3,726	-14	
12	1505.48	17,485	-1,538	879	0	0	0	2,402	-15	
13	1506.03	17,688	203	1,797	0	0	0	1,693	99	
14	1506.79	17,970	282	1,577	0	0	0	1,242	-53	
15	1507.86	18,370	400	429	0	0	0	0	-29	
16	1512.64	20,214	1,844	1,889	0	0	0	0	-45	
17	1517.62	22,238	2,024	2,119	0	51	0	0	-44	
18	1512.82	20,286	-1,952	1,325	0	1,279	0	1,945	-53	
19	1507.45	18,216	-2,070	1,257	0	0	0	3,396	69	
20	1507.40	18,197	-19	2,561	0	0	0	2,523	-57	
21	1510.53	19,389	1,192	2,510	0	0	0	1,373	55	
22	1510.75	19,474	85	127	0	0	0	0	-42	
23	1511.04	19,587	113	115	0	0	0	0	-2	
24	1511.34	19,703	116	123	0	101	0	0	94	
25	1507.42	18,205	-1,498	1,290	0	1,082	0	1,812	106	
26	1508.28	18,528	323	2,914	0	0	0	2,509	-82	
27	1509.41	18,958	430	3,193	0	11	0	2,755	3	
28	1510.15	19,242	284	3,555	0	553	0	2,736	18	
29	1513.77	20,664	1,422	3,190	0	1,230	0	526	-12	
30	1512.02	19,970	-694	803	0	1,368	0	0	-129	
Total				-201	52,799	0	14,406	0	38,319	-275

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow				Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows	Released To Castaic Lagoon		
				Natural	Project						
May-02	1491.82	274,304									
1	1490.86	272,362	-1,942	0	0	0	1,843	0	0	-99	
2	1489.90	270,430	-1,932	0	0	0	1,917	0	0	-15	
3	1488.94	268,500	-1,930	0	0	0	1,964	0	0	34	
4	1488.65	267,919	-581	0	1,255	0	1,894	0	0	58	
5	1489.77	270,168	2,249	0	4,243	0	1,944	0	0	-50	
6	1490.13	270,891	723	0	2,670	0	1,877	0	0	-70	
7	1489.54	269,706	-1,185	0	700	0	1,934	0	0	49	
8	1488.50	267,619	-2,087	0	0	0	1,917	129	20	-21	
9	1487.46	265,541	-2,078	0	0	0	1,921	129	20	-8	
10	1486.93	264,485	-1,056	0	813	0	1,844	129	20	124	
11	1487.81	266,239	1,754	0	3,726	0	1,807	129	20	-16	
12	1487.78	266,172	-67	0	2,402	0	1,820	135	20	-494	
13	1487.83	266,273	101	0	1,693	0	1,810	135	20	373	
14	1487.54	265,700	-573	0	1,242	0	1,774	137	21	117	
15	1486.58	263,789	-1,911	0	0	0	1,753	137	21	0	
16	1485.61	261,866	-1,923	0	0	0	1,779	0	0	-144	
17	1484.73	260,128	-1,738	0	0	0	1,812	0	0	74	
18	1484.69	260,049	-79	0	1,945	0	1,836	0	0	-188	
19	1485.46	261,569	1,520	0	3,396	0	1,832	0	0	-44	
20	1485.78	262,202	633	0	2,523	0	1,825	0	0	-65	
21	1485.50	261,648	-554	0	1,373	0	1,821	0	0	-106	
22	1484.50	259,672	-1,976	0	0	0	1,886	0	0	-90	
23	1483.62	257,944	-1,728	0	0	0	1,785	0	0	57	
24	1482.73	256,201	-1,743	0	0	0	1,779	0	0	36	
25	1482.65	256,045	-156	0	1,812	0	1,868	0	0	-100	
26	1483.01	256,749	704	0	2,509	0	1,823	0	0	18	
27	1483.41	257,532	783	0	2,755	0	1,911	0	0	-61	
28	1483.85	258,396	864	0	2,736	0	1,888	0	0	16	
29	1483.06	256,847	-1,549	0	526	0	1,991	0	0	-84	
30	1482.02	254,815	-2,032	0	0	0	1,975	0	0	-57	
Total				-19,489	0	38,319	0	55,830	1,060	162	-756

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

June 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	Rec.	Article 56	Article 14B	Other		
	No.	Structure										
29A	42	Oso Pumping Plant	1.49		44,603							
29F	W2	Quail Lake	5.02	AVEK Water Agency Lower Quail Canal Temp (427)	5	5						
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07	(0 AF of flow through Gorman Creek Imp. Channel)	43,231							
29H	W3	Pyramid Lake		USFS Pyramid Recreation (T300)	12	12						
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(14,406 AF pump-back) 2/	52,799							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park Castaic Lake Recreation (T301)	24	24						
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	51,111		50,226			3/ 885		
				Castaic Lake WA 18", 24" & 54" (T303)	1,963		1,963					
				Castaic Lake WA (T304)	2,732			2,732				
				MWD-Ventura Co. WPD (T302)	0							
					0							
				Disposition of Natural inflows	1,060							
				Releases to Castaic Lagoon	162							
				Reach 30 Subtotal:	55,830		52,189	24	2,732	0	885	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.87		179							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Arvin Edison Waterbank Recovery.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
							Delivered to CLAWA	Rec.	San Bernardino Tunnel					
May 31	3350.50	70,648												
1	3351.29	71,397	749	1,829	0	1	4	0	1,054	0	-23	0	0	
2	3351.91	71,987	590	1,676	0	1	4	1	1,195	0	113	0	0	
3	3351.20	71,311	-676	618	0	1	6	0	1,261	0	-28	0	0	
4	3350.95	71,074	-237	807	0	1	4	0	1,085	1	46	0	0	
5	3350.53	70,676	-398	963	0	0	4	1	1,233	0	-123	0	0	
6	3350.61	70,752	76	1,348	0	0	5	0	1,227	1	-39	0	0	
7	3350.73	70,865	113	1,036	0	0	4	1	1,163	0	245	0	0	
8	3350.61	70,752	-113	1,031	0	0	6	1	1,164	0	27	0	0	
9	3351.63	71,720	968	2,092	0	0	6	0	1,077	1	-40	0	0	
10	3351.46	71,558	-162	1,036	0	0	7	1	1,156	0	-34	0	0	
11	3351.15	71,264	-294	694	11	0	6	0	1,044	0	51	2	0	
12	3351.15	71,258	-6	1,205	0	0	6	0	1,099	0	-106	4	0	
13	3351.46	71,552	294	1,312	0	0	5	1	1,106	0	94	5	0	
14	3351.23	71,340	-212	913	0	0	7	0	1,126	0	8	4	0	
15	3350.87	70,998	-342	833	0	0	5	1	1,164	1	-4	5	0	
16	3350.73	70,865	-133	1,073	0	0	7	0	1,089	0	-110	5	0	
17	3350.61	70,752	-113	1,060	0	0	6	1	1,107	0	-59	4	0	
18	3350.39	70,544	-208	949	0	0	5	0	1,224	1	73	5	0	
19	3350.45	70,601	57	1,256	0	0	4	1	1,136	0	-58	5	0	
20	3350.39	70,544	-57	1,064	0	0	5	0	1,143	1	28	5	0	
21	3350.16	70,327	-217	933	0	0	4	1	1,110	0	-35	4	0	
22	3350.08	70,252	-75	932	0	0	5	0	1,094	0	92	5	0	
23	3349.72	69,913	-339	763	0	0	7	0	1,132	1	38	5	0	
24	3349.27	69,491	-422	722	0	0	3	1	1,140	0	0	5	0	
25	3348.82	69,070	-421	730	0	0	1	0	1,106	1	-43	5	0	
26	3349.04	69,276	206	1,282	0	0	0	1	1,115	0	40	5	0	
27	3349.58	69,782	506	1,661	0	0	0	0	1,125	0	-30	5	0	
28	3349.63	69,829	47	1,529	0	0	4	1	1,262	1	-214	5	0	
29	3350.16	70,327	498	1,700	0	0	5	0	1,197	0	0	5	0	
30	3351.51	71,606	1,279	2,420	0	0	4	1	1,170	0	34	5	0	
Total				958	35,467	11	4	139	14	34,304	9	-57	93	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

June 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
May 31	1562.14	72,868				
1	1562.03	72,663	-205		173	
2	1562.03	72,663	0		174	
3	1562.06	72,719	56		185	
4	1561.98	72,570	-149		174	
5	1561.90	72,421	-149		173	
6	1561.90	72,421	0		172	
7	1561.81	72,254	-167		174	
8	1561.73	72,106	-148		172	
9	1561.59	71,846	-260		184	
10	1561.59	71,846	0		176	
11	1561.51	71,698	-148		184	
12	1561.51	71,693	-5		142	
13	1561.32	71,341	-352		198	
14	1561.15	71,032	-309		194	
15	1561.15	71,032	0		194	
16	1561.10	70,940	-92		194	
17	1560.93	70,627	-313		218	
18	1560.85	70,480	-147		193	
19	1560.77	70,333	-147		192	
20	1560.71	70,223	-110		192	
21	1560.58	69,984	-239		193	
22	1560.47	69,783	-201		193	
23	1560.33	69,527	-256		193	
24	1560.27	69,417	-110		216	
25	1560.27	69,417	0		193	
26	1560.22	69,326	-91		193	
27	1560.03	68,980	-346		193	
28	1559.97	68,868	-112		193	
29	1560.03	68,980	112		193	
30	1559.95	68,832	-148		193	
Total			-4,036	2,189	5,611	-614

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

June 2013

(In acre-feet)		Deliveries				
Reach No.	Operating Pool		Turnout	Total Diversions		
	Beginning and Ending				Table A	Rec.
	No.	Structure	Mile		Article 56C	Transfer
17E	40	Edmonston Pumping Plant	293.45		90,624	
	41		298.65	KCWA Tej.-Cas	Stub	
17F		Check No. 41	303.41			
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0	
		Check No. 42	304.99			
19	43	Alamo Powerplant	305.73	(Includes 0 AF generation, 0 AF plant bypass, and 36,283 AF Tehachapi Bypass)	36,283	
			306.71	AVEK 305th Street West (T287)	0	
			308.05	AVEK 294th Street West (T267)	132	132
		Check No. 43	309.70			
	44		311.84	LADWP Connection	0	
			313.50	AVEK 245th Street West (T269)	0	
	Check No. 44		314.81			
	45		314.93	AVEK 235th Street West (T270)	0	
			315.57	AVEK 225th Street West (T271)	0	
		Check No. 45	319.74			
			323.19	Antelope Valley-East Kern WA Fairmont (T272)	1,379	1,379
20A	46			MWA Fairmont (T272)	174	174
				Palmdale Water District (272)	2	
		Check No. 46	323.84			
				Reach 19 Total:	1,687	1,685
	47	Check No. 47	326.77			0
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	0	
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved	
20B	Check No. 48		330.82			
	49	Check No. 49	335.93			
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	4,205	4,205
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	98	98
			340.92	AVEK WA-Temp (T387)	0	
	Check No. 50		341.51			
	51		342.06	AVEK WA-Temp (T386)	0	
	Check No. 51		342.07			
21	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0	
		Check No. 52	343.74			
	57		346.98	Palmdale WD (T276) Temp.	749	749
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	57	57
		Check No. 53	348.17			
	54	Check No. 54	350.25			
	55	Check No. 55	352.70			
	56	Check No. 56	354.76			
22A	57		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0	
			354.97	Palmdale WD (T276)	0	
			354.97	Palmdale WD (T391)	0	
	Check No. 57		356.93			
	58		357.60	AVEK 95th Street East (T279)	0	
			357.72	AVEK 96th Street East (T280)	0	
			359.76	AVEK East Side Treatment Plant (T281)	389	389

1/ Article 56CXCH, exchange of long term Table A carryover.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

June 2013

Reach No.	(In acre-feet)			Turnout	Total Diversions	Deliveries								
	Operating Pool		No.			Table A	Rec.	Article 56C	Transfer	Local	Purch. Pool A	Other		
	Beginning and Ending													
22B	58	Pearblossom Pumping Plant	360.61		36,002									
	59	Check No. 59	366.09											
	60		366.50	AVEK Big Rock Siphon (T368)	22		22							
		Check No. 60	373.94											
	61	Check No. 61	379.00											
	62	Check No. 62	384.26											
	63		389.20	MWA (T282)	167		167							
		Check No. 63		MWA (T422)	0									
	64	Check No. 64	395.10											
	65	Check No. 65	400.32											
23	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	390		390							
		Check No. 66	403.41											
24	Mojave Siphon	405.58	Las Flores Ranch Exchange		0									
	Mojave Siphon Power Plant	405.65			35,467									
25	Silverwood Lake	407.65	MWA CS DAM (T288)		0									
			California State Park Silverwood (T288)		14		14							
		407.70	Crestline-Lake Arrowhead WA State Project Water (T289)		139		139							
			Non-Project Water (T289)		0									
	San Bernardino Intake Tunnel				34,304									
26A	Devil Canyon Powerplant	412.73			34,304									
	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T290)		0									
			MWD-Rialto (T293)		17,687		14,730					1/ 2,957		
			MWD-Rialto (T294)		0									
			Desert Water Agency Transfer (T293)		0									
			Coachella Valley WD (T293)		0									
			Coachella Valley WD (T294)		0									
			San Gabriel Valley MWD (T290)		2,385		2,385							
			MWD EBX-1 (T290)		0									
EBX	East Branch Extension	440.05	MWD EBX-1 (T291)		0							2/ 1		
			SBV MWD construction (T428)		1									
			San Bernardino Valley MWD (T290)		219		219							
			San Bernardino Valley MWD (T291)		1,651		1,651							
			San Bernardino Valley MWD (T403)		383		383							
			San Bernardino Valley MWD (T407)		952		952							
			San Gorgonio Pass WA (T413)		952		452		500					
			Coachella Valley (T295)		0									
			Coachella Valley (T296)		0									
28G	442.00	440.05	Desert Water Agency (T296)		0									
			MWD-SC Box Springs (T295)		7,848		7,848							
			MWD-SC (T296)		0									
			MWD-SC (T297)		146		146							
			MWD-SC 54" & 78" (T299)		5,409		5,409							
			Coachella Valley (T2969)		0									
			Desert Water Agency (T299)		0									
			Ca. St. Pk. Lake Perris Rec. (T298)		56		56							

1/ Table A exchange to a SWP contractor.

2/ SWP construction water.

Table 32. Water Quality At Selected SWP Locations

June 2013

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	37	78	88	70	75	72	75	78	80
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.003	0.002	0.002	0.002	0.003	0.003	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.2
Bromide	mg/l	<0.01	0.02	0.25	0.14	0.21	0.23	0.21	0.22	0.21
Calcium	mg/l	8	13	31	19	22	22	23	18	27
Chloride	mg/l as C	1	11	85	50	76	76	71	71	75
Chromium	mg/l as C	<0.001	<0.001	0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	34.000	75.000	154.000	97.000	114.000	111.000	114.000	83.000	118.000
Iron	mg/l	0.006	0.009	<0.005	0.007	<0.005	<0.005	<0.005	0.007	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	10	19	12	14	14	13	9	12
Manganese	mg/l	<0.005	0.013	<0.005	0.005	<0.005	0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.430	0.840	0.560	0.350	0.320	0.400	0.570	0.350
Organic Carbon, Dissolved	mg/l	NR	3	4	4	4	4	3	3	4
Organic Carbon, Total	mg/l as N	NR	3.500	4.200	3.800	3.700	3.800	3.600	3.300	3.400
Phosphate-Ortho	mg/l as P	<0.01	0.12	0.09	0.12	0.06	0.05	NR	0.04	0.02
Phosphorus-Total	mg/l	<0.01	0.21	0.14	0.13	0.08	0.08	0.06	0.06	0.04
Selenium	mg/l	<0.001	<0.001	0.00	<0.001	<0.001	<0.001	0.00	0.00	<0.001
Sodium	mg/l	3.000	16.000	68.000	41.000	55.000	54.000	56.000	40.000	57.000
Specific Conductance	µS/cm	85	229	614	376	492	469	485	484	531
Sulfate	mg/l	2	14	70	32	38	40	42	47	54
Total Dissolved Solids	mg/l	56	142	339	222	273	261	276	278	278
Turbidity	NTU	2	22	2	12	4	3	3	2	<1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	<0.005	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

Table 33. Water Quality At Selected Delta Stations														June 2013		
Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
30	1	5.67	3.76	9,583	9,583	7,183	0.86	4.13	0.27	0.35	0.30	0.32	0.46	0.36	0.52	45
	2	6.13	4.02	9,053	9,318	8,850	0.98	4.87	0.28	0.36	0.31	0.32	0.43	0.37	0.50	45
	3	6.45	4.49	8,563	9,067	8,315	1.26	6.66	0.38	0.37	0.35	0.32	0.41	0.32	0.48	44
	4	6.55	4.57	7,386	8,646	8,415	1.61	7.52	0.57	0.39	0.40	0.33	0.40	0.30	0.44	41
	5	6.55	4.52	7,243	8,366	8,210	1.52	7.15	0.57	0.41	0.40	0.34	0.44	0.31	0.48	40
	6	6.61	4.54	7,307	8,189	8,483	1.53	6.88	0.48	0.43	0.40	0.34	0.43	0.31	0.46	43
	7	6.62	4.52	7,507	8,092	6,724	1.58	6.71	0.52	0.44	0.42	0.35	0.43	0.34	0.48	39
	8	6.60	4.75	7,527	8,021	5,443	1.77	7.19	0.63	0.45	0.43	0.36	0.43	0.33	0.49	39
	9	7.09	5.07	6,899	7,897	5,045	2.43	9.85	1.25	0.50	0.60	0.37	0.40	0.29	0.46	39
	10	6.74	4.67	7,371	7,844	5,463	1.80	7.51	0.78	0.52	0.43	0.38	0.46	0.33	0.44	39
	11	6.26	4.39	7,262	7,791	6,588	1.50	6.12	0.47	0.52	0.38	0.38	0.42	0.39	0.53	37
	12	6.11	4.28	7,472	7,764	6,452	1.50	6.07	0.42	0.52	0.40	0.39	0.46	0.40	0.49	37
	13	5.62	3.99	7,196	7,721	6,305	1.27	5.19	0.33	0.51	0.38	0.39	0.48	0.37	0.49	38
	14	5.16	3.80	7,413	7,699	7,002	1.18	4.18	0.27	0.52	0.35	0.40	0.42	0.37	0.50	39
	15	5.49	4.07	7,374	7,677	7,012	1.21	5.41	0.33	0.52	0.36	0.40	0.38	0.36	0.45	40
	16	5.52	3.90	6,959	7,632	6,235	1.13	5.58	0.28	0.52	0.36	0.40	0.38	0.36	0.45	41
	17	5.73	3.79	7,541	7,627	6,137	1.08	5.53	0.29	0.51	0.34	0.40	0.40	0.38	0.48	42
	18	6.15	3.99	7,458	7,617	5,821	1.19	5.95	0.33	0.50	0.35	0.40	0.39	0.36	0.47	42
	19	5.98	3.86	7,162	7,594	5,603	1.27	5.72	0.36	0.48	0.35	0.40	0.36	0.37	0.43	41
	20	6.14	3.87	7,222	7,575	6,591	1.23	5.86	0.36	0.47	0.34	0.39	0.34	0.32	0.42	42
	21	6.42	4.11	7,284	7,561	6,122	1.47	6.38	0.49	0.47	0.37	0.39	0.35	0.28	0.38	41
	22	6.61	4.23	7,950	7,579	5,883	1.67	7.08	0.57	0.47	0.40	0.39	0.35	0.25	0.36	41
	23	6.82	4.41	8,129	7,603	5,986	2.03	8.27	0.74	0.43	0.42	0.37	0.35	0.28	0.36	41
	24	6.82	4.33	7,283	7,589	6,224	1.88	7.40	0.64	0.42	0.40	0.37	0.35	0.30	0.36	39
	25	6.56	4.29	7,411	7,582	7,003	1.75	6.93	0.54	0.42	0.39	0.37	0.34	0.27	0.41	39
	26	6.28	4.23	7,529	7,580	7,499	1.63	6.65	0.50	0.43	0.38	0.37	0.33	0.27	0.38	41
	27	5.92	4.09	7,111	7,563	8,266	1.47	6.20	0.40	0.44	0.37	0.37	0.34	0.28	0.38	40
	28	5.65	4.02	7,809	7,572	9,458	1.30	5.54	0.34	0.44	0.36	0.37	0.33	0.28	0.41	39
	29	5.83	4.00	8,744	7,612	10,514	1.28	5.55	0.29	0.44	0.36	0.37	0.32	0.29	0.41	39
	30	6.06	4.10	9,216	7,666	10,731	1.33	5.71	0.26	0.44	0.38	0.37	0.31	0.33	0.41	39

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

June 2013

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 19, 2013	Metolachlor	0.10
California Aqueduct At Banks Pumping Plant	June 19, 2013	2,4-D Atrazine Dacthal (DCPA) Metolachlor	0.30 0.05 0.01 0.10
O'Niell Forebay Outlet Check 13	June 18, 2013	Dacthal (DCPA) Simazine	0.01 0.02
Delta Mendota Canal At McCabe Road	June 18, 2013	2,4-Dichlorophenylacetic acid (DCAA) Atrazine Metolachlor	1.10 0.02 0.10
California Aqueduct Near Kettleman City (Check 21)	June 18, 2013	N/A	N/A
California Aqueduct At Near Highway 119 (Check 29)	June 24, 2013	Dacthal (DCPA)	0.04
California Aqueduct at Tehachapi Afterbay (Check 41)	June 19, 2013	Simazine	0.03
California Aqueduct At Devil Canyon 2nd Afterbay (2nd Afterbay)	June 19, 2013	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)		June 2013						
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	7,166,940	0	49,508	51,646	830,256	830,256	409,492	421
2	7,161,374	0	47,171	48,939	828,840	828,840	409,338	446
3	7,153,102	0	47,996	50,445	830,200	830,200	409,896	441
4	4,971,098	0	51,323	49,901	551,752	551,752	453,348	448
5	4,079,130	0	52,689	54,028	350,816	350,816	473,148	416
6	4,079,031	0	47,886	51,579	226,760	226,760	461,777	405
7	4,092,528	0	42,162	46,947	226,608	226,608	406,083	402
8	4,133,514	0	45,688	50,693	372,896	372,896	406,342	442
9	4,120,050	0	46,769	49,802	441,448	441,448	404,232	428
10	4,104,903	0	40,525	45,909	443,536	443,536	483,704	423
11	4,070,693	0	44,318	53,318	1,389,768	1,389,768	535,741	401
12	4,147,220	0	42,070	47,623	1,360,504	1,360,504	535,886	392
13	4,089,481	0	52,712	52,801	1,151,120	1,151,120	497,232	395
14	4,128,168	0	59,482	58,088	1,105,248	1,105,248	420,741	389
15	4,127,299	0	45,397	45,710	1,471,872	1,471,872	467,246	372
16	4,132,953	0	54,590	54,940	1,182,600	1,182,600	467,138	374
17	4,124,813	9,284	45,048	48,961	904,568	904,568	467,897	380
18	4,108,049	13,530	44,270	48,262	672,840	672,840	467,664	387
19	4,107,686	12,870	46,601	47,130	630,600	630,600	467,768	448
20	4,407,436	13,090	55,165	50,902	384,776	384,776	519,764	428
21	4,715,722	13,409	47,016	47,340	914,576	914,576	534,533	435
22	8,475,742	13,189	49,721	47,795	485,568	485,568	522,235	376
23	10,220,331	12,848	41,422	44,847	487,128	487,128	467,573	373
24	10,215,623	13,035	43,108	44,984	486,800	486,800	468,178	444
25	9,723,593	13,277	29,272	30,474	1,354,256	1,354,256	468,464	362
26	9,483,023	12,892	35,172	38,951	1,704,728	1,704,728	469,042	350
27	9,481,549	12,980	39,996	41,019	1,924,616	1,924,616	308,819	358
28	9,990,486	13,123	51,645	46,962	3,104,616	3,104,616	150,969	394
29	10,181,314	13,321	45,364	42,342	3,191,616	3,191,616	150,681	412
30	10,160,282	13,189	45,810	36,636	3,232,560	3,232,560	170,436	412
Total	185,153,133	180,037	1,389,894	1,428,974	32,243,472	32,243,472	12,875,366	12,154

Table 36. San Luis Field Division Energy Data

(in kWh)		June 2013				
Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load /1	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,538,924	992,924	2,359,665	1,039,665	0	0
2	1,560,805	1,014,805	2,329,217	1,009,217	0	0
3	1,045,748	499,748	2,281,521	625,521	0	0
4	1,111,671	565,671	2,225,883	1,121,883	0	0
5	1,826,064	1,280,064	2,194,819	1,090,819	0	0
6	1,401,867	855,867	2,183,159	1,079,159	0	0
7	1,523,810	1,100,810	2,154,174	834,174	0	0
8	1,509,235	963,235	2,137,795	817,795	0	0
9	1,454,085	908,085	2,102,859	998,859	0	0
10	1,402,871	983,871	2,073,973	753,973	0	0
11	1,568,538	1,142,538	2,038,751	934,751	0	0
12	1,584,387	1,038,387	1,939,663	1,387,663	0	0
13	1,782,157	1,236,157	1,503,667	399,667	0	0
14	1,623,920	1,077,920	1,837,737	517,737	0	0
15	1,616,539	1,070,539	1,951,125	847,125	0	0
16	1,362,150	768,150	1,451,043	443,043	0	0
17	1,343,585	749,585	1,430,726	-81,274	0	0
18	1,544,281	950,281	1,909,270	397,270	0	0
19	1,377,702	783,702	1,895,025	695,025	0	0
20	1,505,212	1,046,212	1,870,671	670,671	0	0
21	1,505,628	911,628	1,856,910	656,910	0	0
22	1,241,179	647,179	2,068,308	868,308	0	0
23	1,228,511	634,511	2,017,521	865,521	0	0
24	1,182,125	588,125	1,948,155	796,155	0	0
25	1,157,647	563,647	1,935,032	495,032	0	0
26	1,360,562	766,562	1,536,359	240,359	2,189	2,189
27	1,798,519	1,204,519	1,605,164	485,164	0	0
28	1,889,843	1,295,843	1,203,389	-60,611	0	0
29	1,802,822	1,328,822	1,112,254	104,254	0	0
30	1,792,454	1,318,454	776,897	-87,103	0	0
Total	44,642,842	28,287,842	55,930,732	19,946,732	2,189	2,189

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)										June 2013
Date	Coastal Branch					California Aqueduct				
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston	
1	31,898	81,206	59,558	57,433	59,794	1,195,967	1,095,953	2,356,365	8,561,565	
2	39,740	98,712	68,528	62,865	68,369	1,131,460	1,089,428	2,386,703	8,570,718	
3	42,575	108,070	62,404	58,337	62,118	634,795	626,252	1,276,066	4,549,392	
4	45,174	112,635	30,590	29,519	31,899	703,174	571,135	1,145,067	3,959,091	
5	45,752	111,000	36,155	33,238	35,467	1,013,947	921,004	1,938,728	6,663,600	
6	47,546	116,584	52,202	49,907	53,915	975,011	892,057	1,871,276	6,647,400	
7	53,802	132,934	85,707	78,923	84,329	848,993	780,651	1,647,569	5,692,464	
8	52,171	130,663	92,268	85,390	90,189	940,048	780,786	1,617,605	5,691,978	
9	44,746	110,524	63,497	59,045	64,421	1,103,132	1,117,091	2,434,883	8,849,898	
10	47,411	120,521	72,411	67,809	72,745	788,528	785,351	1,663,420	6,063,390	
11	49,978	114,933	44,428	40,518	44,941	910,656	796,523	1,651,155	5,793,174	
12	46,024	112,522	39,924	38,325	40,867	862,180	779,112	1,622,368	5,843,988	
13	47,779	117,958	56,319	52,935	57,528	849,442	799,582	1,662,815	5,810,913	
14	46,902	114,280	36,478	32,915	36,032	932,036	844,454	1,788,512	6,308,064	
15	47,531	115,638	48,777	45,582	49,775	975,985	906,034	1,846,911	6,603,552	
16	47,466	117,312	49,275	44,781	49,109	907,857	882,054	1,915,980	7,064,631	
17	48,687	117,401	49,602	45,940	49,993	787,820	836,096	1,783,452	6,452,784	
18	47,531	113,939	44,330	40,584	43,907	936,115	864,038	1,790,371	6,406,398	
19	49,567	118,838	41,365	38,950	43,179	935,840	826,033	1,717,529	6,044,733	
20	48,540	120,571	42,261	38,760	42,283	827,397	752,643	1,543,201	5,193,369	
21	53,296	130,769	41,362	39,178	42,582	1,082,588	908,397	1,909,413	6,809,238	
22	49,674	122,211	39,952	38,279	41,952	788,666	672,691	1,377,486	4,783,995	
23	55,151	138,682	69,165	62,129	65,890	588,397	579,886	1,246,355	4,627,503	
24	52,047	126,663	21,482	20,520	20,983	556,864	519,138	1,038,169	3,619,701	
25	54,584	136,336	64,596	58,784	64,939	455,846	339,692	602,525	1,935,927	
26	56,501	138,735	67,629	58,838	63,256	705,107	650,583	1,280,928	4,475,466	
27	53,616	131,097	47,673	42,610	47,244	1,405,951	1,457,779	3,146,539	11,351,880	
28	56,441	139,395	78,352	70,626	75,692	1,541,340	1,463,596	3,155,834	11,161,611	
29	54,146	125,716	53,968	48,256	53,013	1,538,555	1,475,492	3,216,785	11,527,947	
30	51,849	121,557	29,118	27,714	29,249	1,585,789	1,592,239	3,489,992	12,672,693	
Total	1,468,127	3,597,402	1,589,373	1,468,689	1,585,660	28,509,489	26,605,769	56,124,002	199,737,063	

Table 38. Southern Field Division Energy Data

(in kWh)										June 2013
Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	461,221	901,589	1,440,000	0	1,215,971	1,292,702	145,823	42,912	50,309	2,585
2	487,847	902,775	1,440,000	0	1,162,855	1,470,280	128,594	42,922	50,201	2,369
3	268,218	901,598	1,440,000	0	520,024	1,520,478	48,524	42,753	49,972	2,851
4	142,939	525,744	1,200,000	0	537,050	1,303,157	59,702	43,686	50,165	3,594
5	406,932	901,006	1,200,000	0	667,273	1,458,734	76,443	44,020	50,140	3,573
6	393,307	901,681	1,200,000	0	791,444	1,470,910	103,860	43,861	50,196	3,614
7	336,109	677,055	1,200,000	0	729,659	1,387,681	68,975	44,098	50,202	3,608
8	352,932	896,389	1,200,000	0	746,658	1,391,983	68,536	45,113	50,196	3,621
9	461,523	872,672	1,200,000	0	1,335,795	1,293,145	162,294	45,706	50,189	3,600
10	393,149	603,302	1,440,000	0	660,196	1,379,747	67,750	44,777	50,221	3,593
11	366,045	903,474	1,440,000	0	540,394	1,234,490	45,338	44,832	50,264	3,640
12	336,758	905,248	1,440,000	0	761,318	1,309,122	86,634	44,425	50,168	3,610
13	325,057	859,043	1,440,000	0	785,942	1,328,195	99,329	43,885	50,054	3,524
14	362,265	893,668	1,440,000	0	718,530	1,341,086	71,265	43,995	50,154	3,383
15	447,943	864,988	1,440,000	0	738,743	1,399,212	66,668	44,329	50,020	3,370
16	463,558	871,115	1,440,000	0	693,278	1,303,330	72,182	44,900	50,006	3,377
17	449,776	861,025	1,440,000	0	703,359	1,305,814	71,334	45,149	50,118	3,374
18	365,138	747,155	1,440,000	0	723,936	1,473,404	72,774	45,030	50,072	2,843
19	335,687	907,187	1,440,000	13,885	722,852	1,357,470	100,130	44,133	50,048	2,999
20	253,161	673,645	1,440,000	17,100	703,914	1,370,102	82,195	44,052	50,059	3,268
21	434,921	561,800	1,440,000	10,735	681,569	1,328,670	74,820	43,925	50,231	3,389
22	201,130	607,451	1,440,000	0	681,618	1,310,706	75,569	44,235	50,206	3,383
23	170,604	414,723	1,440,000	0	581,023	1,362,478	59,617	43,916	50,178	3,373
24	157,569	303,845	480,000	0	538,487	1,354,824	57,007	42,001	50,127	3,362
25	62,271	225,647	480,000	0	484,031	1,278,090	53,762	42,931	59,273	3,375
26	169,552	300,929	480,000	0	806,718	1,336,993	97,068	46,435	64,757	3,439
27	724,198	1,802,914	2,688,000	0	1,173,024	1,372,284	127,268	52,325	64,851	3,485
28	772,718	1,794,274	2,688,000	0	1,065,754	1,579,439	123,698	52,288	60,302	3,205
29	838,667	1,794,579	2,688,000	0	1,193,365	1,495,429	138,781	55,547	64,799	3,393
30	840,510	1,690,327	2,688,000	0	1,481,298	1,456,279	191,341	55,303	64,840	3,418
Total	11,781,704	26,066,845	43,872,000	41,720	24,146,077	41,266,235	2,697,278	1,363,484	1,582,318	100,218

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.